

ABSTRACT OF THE DISCLOSURE

A vaccine including recombinant vaccinia virus (ATCC VR-1354) having an inserted gene for coding glutamic acid decarboxylase is used for preventing type 1 diabetes mellitus. The glutamic acid decarboxylase expressed from the recombinant virus suppresses or tolerizes the autoreactive T cell, and induces immunological tolerance, thus effectively prevents or delays the development of type 1 diabetes mellitus.